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# FIG. 1E

	MeIF-4AI	MeIF-4AII	MeIF-4A3
XeIF-4AIII	64	66	73
MeIF-4AI		90	62
MeIF-4AII			62

# FIG. 1A

1 M A A A V A G V A G L T T A H A K R L L R E E D M T T V E XeIF-4AII  
1 M E E D R L V N eIF-4A3

31 F Q T S E E V D V T P T F D T M G L R E D L L R G I Y A Y G XeIF-4AII  
8 F E T S K G V E P I A S F A E M G I K D D L L R G V Y Q Y G N eIF-4A3

61 F E K P S A I Q Q K A I K Q I I K G R D V I A Q S Q S G T G XeIF-4AII  
38 F E K P S A I Q Q R A V L P I I S G R D V I A Q A Q S G T G N eIF-4A3

91 K T A T F C V S V L Q C L D I Q I R E T Q A L I L A P T K E XeIF-4AII  
68 K T S M I A L T V C Q I V D T K S S E V Q A L I L S P T R E N eIF-4A3

121 L A R Q I Q K V L L A L G D Y M N V Q C H A C I G G T N V G XeIF-4AII  
98 L A A Q T E K V I L A I G D Y I N V Q A H A C I G G K S V G N eIF-4A3

151 E D I R K L D Y G Q H V V A G T P G R V F D M I R R R S L R XeIF-4AII  
128 E D I R K L E H G V Q V V S G T P G R V C D M I K R R T L R N eIF-4A3

A

# FIG. 1B

A — — — — A

181 T R A I K M L V L D E A D E M L N K G F K E Q I Y D V Y R Y XeIF-4AII  
158 T R G I K L L I L D E S D E M L S R G F K D Q I Y D V Y R Y NeIF-4A3

211 L P P A T Q V C L I S A T L P H E I L E M T N K F M T D P I XeIF-4AII  
188 L P P E L Q V V L I S A T L P N E I L E I T S K F M T D P V NeIF-4A3

241 R I L V K R D E L T L E G I K Q F F V A V E R E E W K F D T XeIF-4AII  
218 R I L V K R D E L T L E G I K Q F F V A V E K E E W K F D T NeIF-4A3

271 L C D L Y D T L T I T Q A V I F C N T K R K V D W L T E K M XeIF-4AII  
248 L C D L Y D T L T I T Q A V I F C N T K R K V D W L T S K M NeIF-4A3

301 R E A N F T V S S S M H G D M P Q K E R E S I M K E F R S G A XeIF-4AII  
278 R E N N F T V S S S M H G D M P Q K E R D A I M A E F R G G T NeIF-4A3

331 S R V L I S T D V W A R G L D V P Q V S L I I N Y D L P N N XeIF-4AII  
308 T R V L I T T D V W A R G L D V Q Q V S L V I N Y D L P N N NeIF-4A3

361 R E L Y I H R I G R S G R Y G R K G V A I N F V K N D D I R XeIF-4AII  
338 R E L Y I H R I G R S G R F G R K G V A I N F V K S D D I K NeIF-4A3

391 I L R D I E Q Y Y S T Q I D E M P M N V A D L I XeIF-4AII  
368 I L R D I E Q Y Y S T Q I D E M P M N V A D L I NeIF-4A3

embryonic stage

8 9 10 10.25 10.5 10.75 11 11.5 12 12.5 13 14



XeIF-4AIII

EF1- $\alpha$ 

cSRC

+ + + + + + + + + + - RT

FIG. 1C

FIG. 1D

|                  |                 |                  |        |           |
|------------------|-----------------|------------------|--------|-----------|
| region explanted | dorsal ectoderm | ventral ectoderm | embryo | embryo-RT |
|------------------|-----------------|------------------|--------|-----------|

normalized XeIF-4AIII  
RNA levels

1.0 2.0



XeIF-4AIII

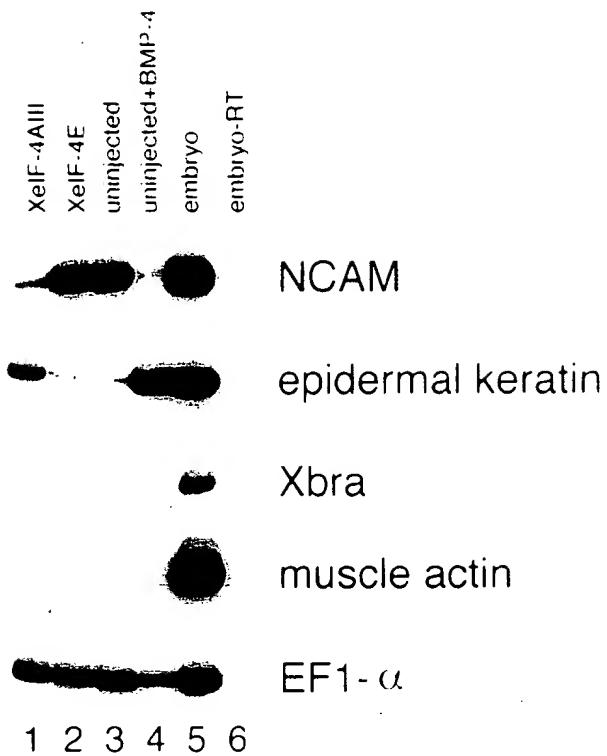
EF1- $\alpha$ 

epidermal keratin

Xbra

1 2 3 4

## FIG. 2A



## FIG. 2B

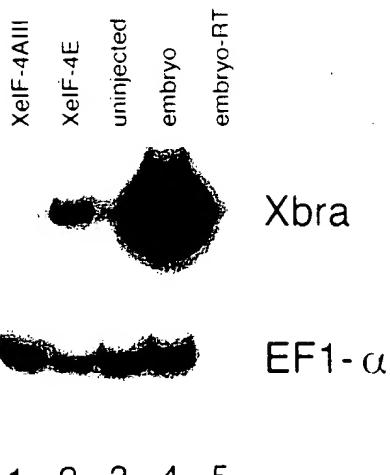


FIG. 2C

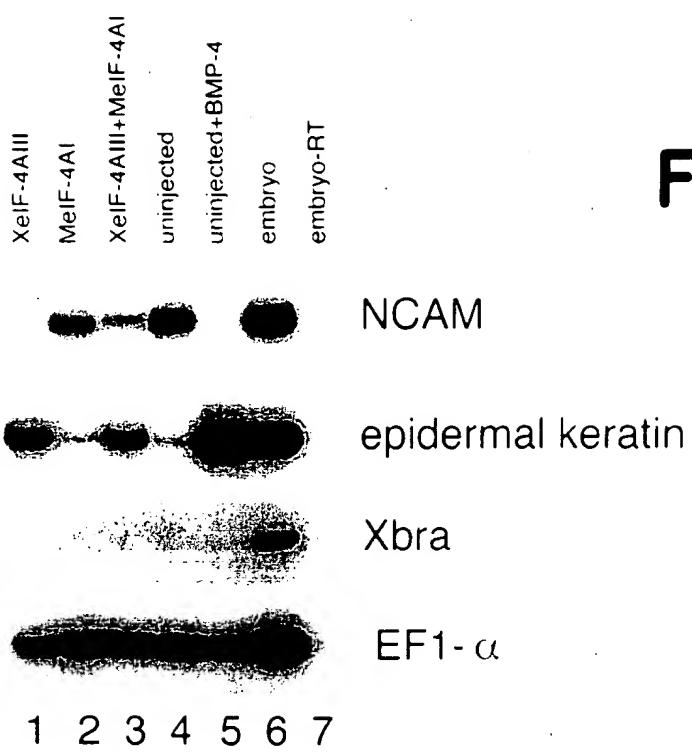


FIG. 2D

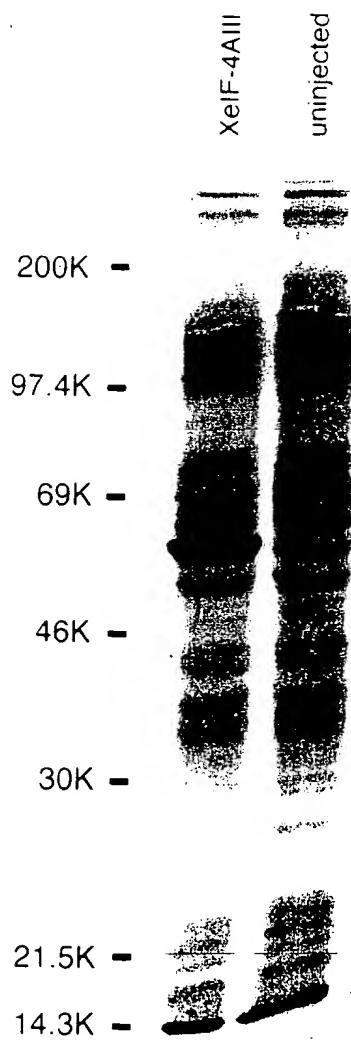


FIG. 3A

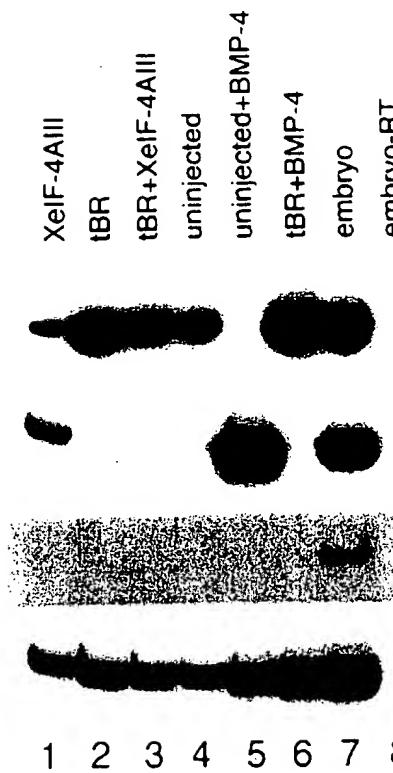
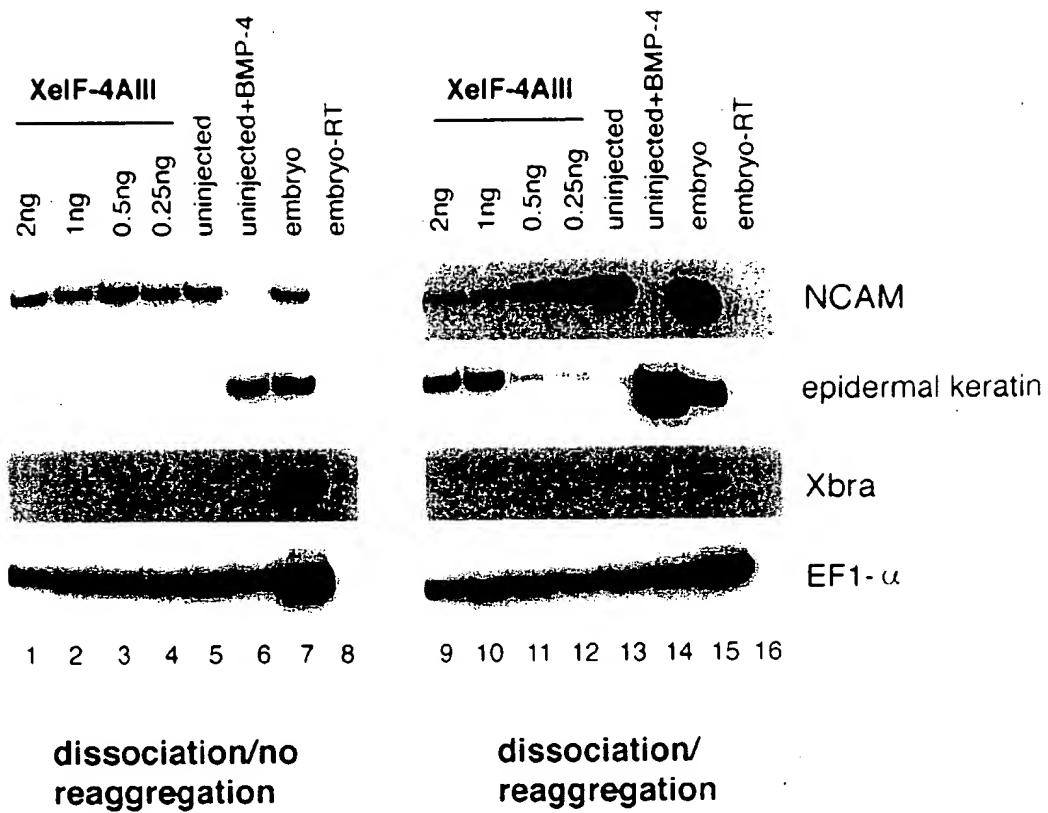


FIG. 3B